AUTODOC CLUB

How to change front coil springs on **Mercedes W124** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
MERCEDES-BENZ Saloon (W124) 300 E 3.0 (124.030), MERCEDES-BENZ Saloon (W124) 300 E 3.0, MERCEDES-BENZ E-Class Saloon (W124) E 250 D (124.126, 124.129), MERCEDES-BENZ Saloon (W124) 250 2.5 Turbo diesel (124.128), MERCEDES-BENZ Saloon (W124) 300 D 3.0 (124.130), MERCEDES-BENZ E-Class Saloon (W124) E 300 D (124.131), MERCEDES-BENZ Saloon (W124) 300 3.0 Turbo diesel (124.133), MERCEDES-BENZ E-Class Saloon (W124) E 280 (124.028), MERCEDES-BENZ Saloon (W124) 300 E-24 3.0 (124.031), MERCEDES-BENZ E-Class Saloon (W124) E 320 (124.032), MERCEDES-BENZ W124 Estate (S124) 300 D 3.0 (124.190), MERCEDES-BENZ E-Class T-modell (S124) E 300 TD (124.191), MERCEDES-BENZ E-Class T-modell (S124) E 280 T (124.088), MERCEDES-BENZ W124 Estate (S124) 300 TE-24 3.0 (124.091), MERCEDES-BENZ E-Class T-modell (S124) E 320 T (124.092), (+ 12)

The steps may slightly vary depending on the car design.

REPLACEMENT: COIL SPRINGS – MERCEDES W124. TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- Combination spanner #13
- Combination spanner #19
- Combination spanner #22
- Drive socket # 13
- Drive socket # 19
- HEX bit no.H6
- HEX bit no.H7
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Water pump pliers
- Crow bar
- Strut spring compressor
- Hydraulic transmission jack
- Fender cover
- Wheel chock

BUY TOOLS

Replacement: coil springs – Mercedes W124. AUTODOC experts recommend:

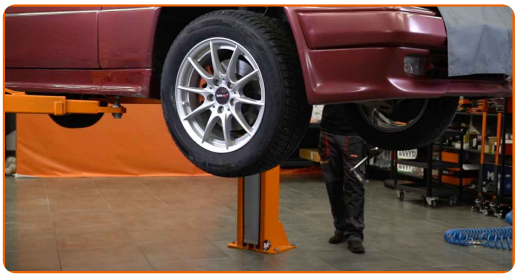
- Both coil springs of the front suspension should be replaced simultaneously.
- The replacement procedure is identical for the left and right coil springs of the front suspension.
- All work should be done with the engine stopped.

REPLACEMENT: COIL SPRINGS – MERCEDES W124. TAKE THE FOLLOWING STEPS:

1. Secure the wheels with chocks.
2. Loosen the wheel bolts. Use wheel impact socket #17. Use a tap wrench.



3. Raise the car.



AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

4 Unscrew the wheel bolts.



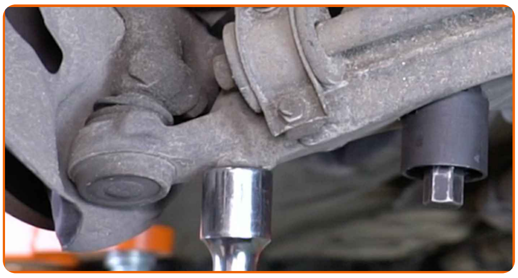
AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Mercedes W124

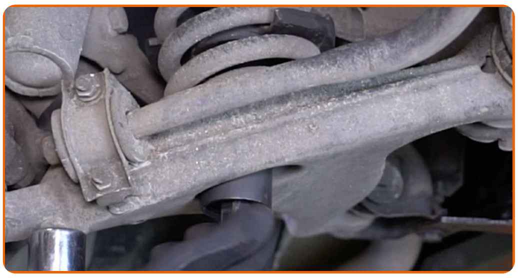
5 Remove the wheel.



6 Support the steering knuckle. Use a hydraulic transmission jack.



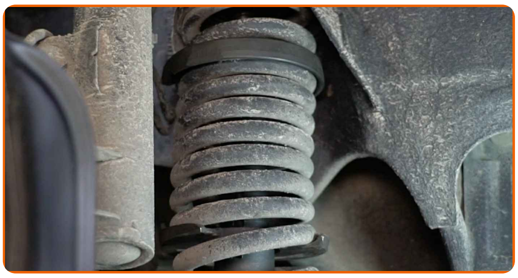
7 Install the coil spring compressor on the coil spring.



AUTODOC recommends:

- Use adapters and jaws of the appropriate size.
- The sping coils should be securely fixed with the coil spring compressor.
- Use high quality coil spring compressors.

8 Compress the spring.



Replacement: coil springs – Mercedes W124. Tip from AUTODOC experts:

- Be careful. The compressed spring is powerful and can cause injury if it comes loose.

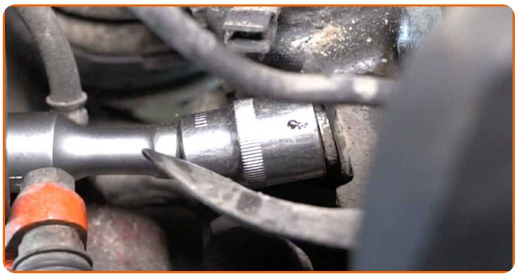
9 Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



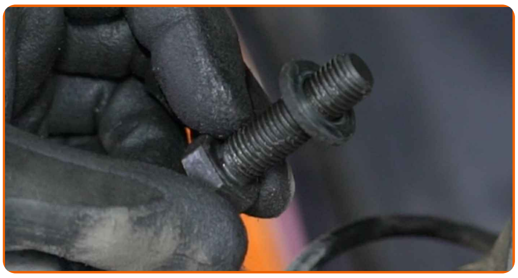
10 Disconnect the wiring from the strut.



11 Unscrew the lower fasteners on the shock absorber. Use a drive socket #19. Use a ratchet wrench.



12 Remove the fastening bolts.



13 Detach the strut from the steering knuckle. Use a crowbar.



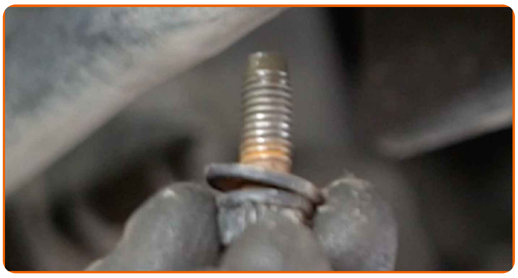
14 Clean the fasteners of the stabilizer bush brackets. Use a wire brush. Use WD-40 spray.



15 Unscrew the fasteners of the stabilizer bush brackets. Use a combination spanner #13. Use a drive socket #13. Use a ratchet wrench.



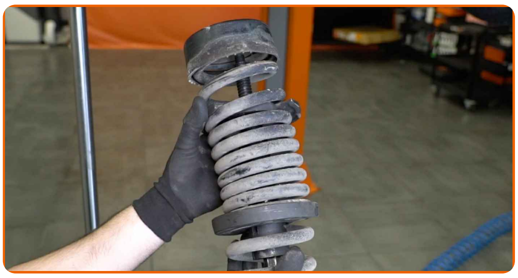
16 Remove the fastening bolts.



17 Remove the stabilizer bush brackets.



18 Remove the coil spring together with the coil spring compressor.



Replacement: coil springs – Mercedes W124. AUTODOC experts recommend:

- While the spring is compressed, do not do any operations on it.

19 Decompress the spring.



20 Put the coil spring compressor on the new spring.



Replacement: coil springs – Mercedes W124. Tip from AUTODOC:

- The position of the compressor on the new coil spring should be the same as on the old one.

21 Compress the spring.



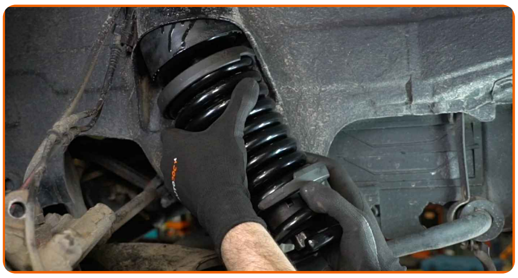
AUTODOC recommends:

- Be careful. The compressed spring is powerful and can cause injury if it comes loose.

22 Clean the coil spring mounting seats. Use a wire brush. Use all-purpose cleaning spray.



23 Install the spring together with the compressor.



AUTODOC recommends:

- Make sure that the coil spring is correctly positioned in its mounting seats.

24 Install the fastening bolts.



25 Tighten the lower fasteners on the shock absorbers. Use a drive socket #19. Use a torque wrench. Tighten it to 110 Nm torque.

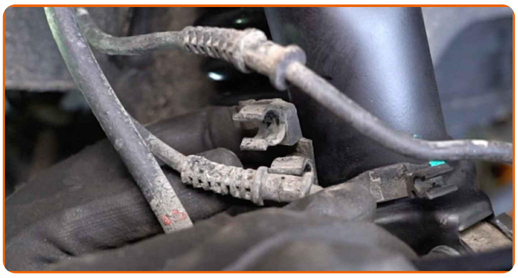


26 Remove the support from under the steering knuckle.

AUTODOC recommends:

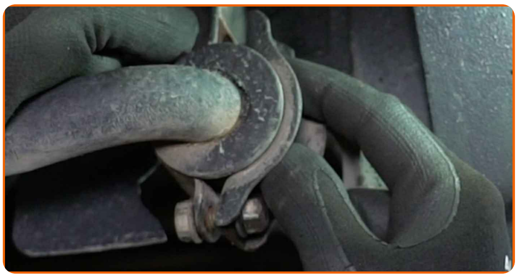
- Lower the hydraulic transmission jack smoothly, without jerks, to avoid damaging assemblies and mechanisms.

27 Secure the wiring to the strut.

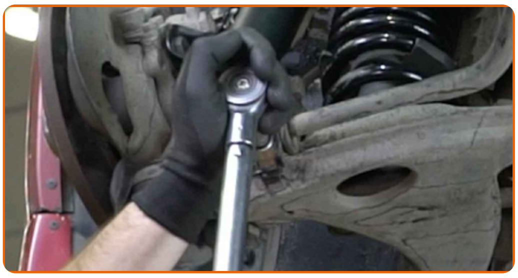


28 Install the stabilizer bush brackets. Use water pump pliers.

29 Install the fastening bolts.



30 Tighten the fasteners on the anti-roll bar bush brackets. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



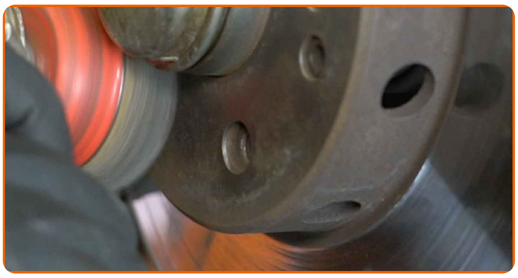
31 Decompress the spring.



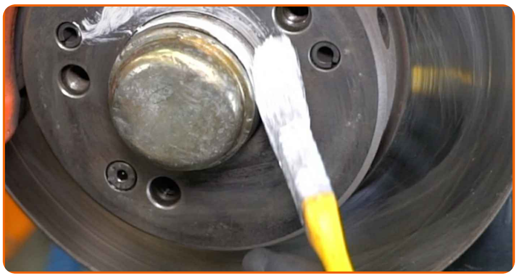
32 Remove the coil spring compressor.



33 Clean the wheel rim mounting seat. Use a wire brush. Use all-purpose cleaning spray.



34 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



35 Install the wheel.



Replacement: coil springs – Mercedes W124. AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

36 Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



37 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



38 Remove the jacks and chocks.

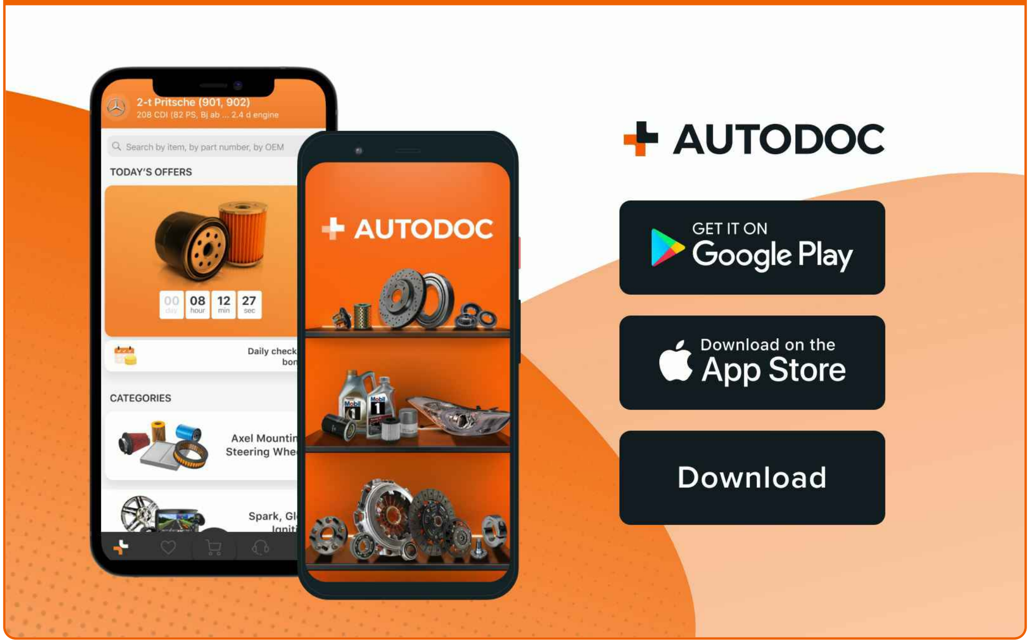


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